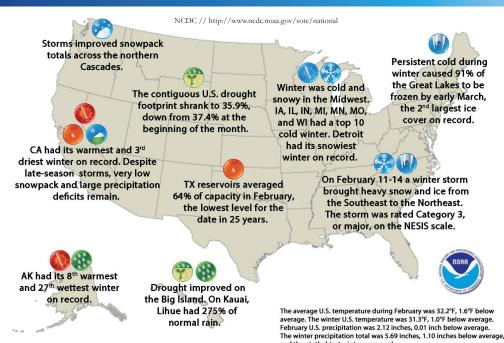
Western Region March 2014

Significant Events for December - February 2014



Highlights for the West

High pressure persisted over the West Coast through winter keeping this region dry, warm.

Winter precipitation in bottom 10th percentile for California, Arizona, New Mexico.

Severe drought persists in California; governor declares drought State of Emergency.

California had warmest winter in 120-year record.

Above normal precipitation and snow pack in Upper Colorado, Upper Missouri, and Green River basins.

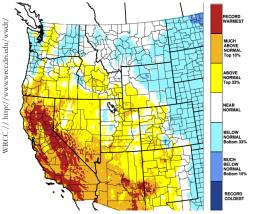
Snow pack <50% of normal in Sierra, southern Cascades.

ENSO-neutral conditions are expected to persist through spring.

Regional Overview for December - February 2014

Mean Temperature Percentile

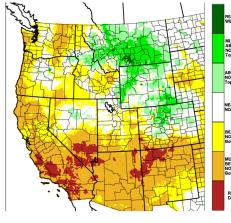
December-February 2014



Temperature percentile rankings show warmer than normal and in some cases, record warm, temperatures prevailed in the Southwest. Slightly cooler than normal temperatures were observed in the northern tier of the West. Strong inversions following a cold air outbreak in early December led to slightly below- normal winter temperatures for valleys of the Intermountain West.

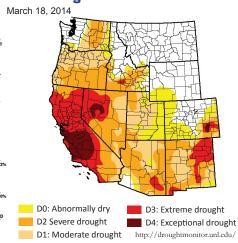
Precipitation Percentile

December-February 2014



Dry conditions observed in December and January in the Northwest gave way to above normal February precipitation. Pockets of the Northwest and much of the Southwest saw winter precipitation totals in the bottom 10th percentile. In contrast, precipitation totals in the top 10th percentile were observed in the Northern and Central Rocky Mountains and throughout much of Montana.

U.S. Drought Monitor



This winter saw a 10% increase in the area of the West designated as D2-D4 (extreme to exceptional drought). Most of the expansion or degredation was seen in California, Nevada, Oregon, Washington, Arizona, and New Mexico. Improvement was seen in Idaho, Wyoming, and Montana.



Regional Impacts for December - February 2014

Drought, Flooding and Water Resources

Almost 100% of California is experiencing drought. 22% of the state is categorized as undergoing exceptional drought.

Heavy precipitation and high snow levels in February led to minor flooding and mudslides in California, Oregon, and Washington.

Above-normal snowpack in Wyoming, Colorado, and eastern Utah has elevated chances of spring flooding in river basins.

Agriculture

California rangelands are in poor condition; supplemental feeding or relocation of herds has become necessary.

Dry conditions in California have necessitated out-of-season irrigation and fallowing of fields.

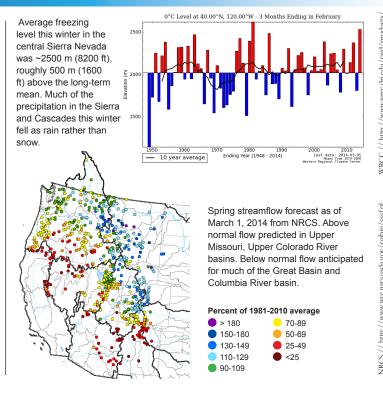
New Mexico farmers are preparing for a short irrigation season as they will only receive 1/6 of their full water allocations.

Tourism

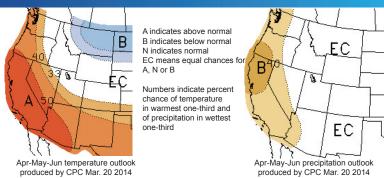
Low snowpack in the Sierra Nevada and the Cascades kept ski resorts closed or only partially open for much of the winter.

Fire

Several out-of-season fires destroyed homes and charred thousands of acres in California.



Regional Outlook for Apr-May-Jun 2014



NOAA CPC Spring Seasonal Outlook

Temperatures in most of the West are likely to be above normal through the spring and into June, with the exception of Montana and the Dakotas, where temperatures are likely to be lower. Along the West Coast and in western Nevada, precipitation remains unlikely to reach normal levels. These predictions underscore the likelihood of persistant drought throughout California, Nevada, Oregon, Arizona and New Mexico.



NIFC Wildfire Outlook

Fire potential above normal for much of California. Near normal levels elsewhere in West.



NOAA Seasonal Drought Outlook

Drought expected to persist/develop in the Southwest and Oregon. Some improvement seen in Washington, Idaho.

Western Regional Climate Center wrcc.dri.edu

National Integrated Drought Information
System (NIDIS) - drought.gov

Western Governors' Association westgov.org

Western States Water Council westgov.org/wswc

NOAA/ESRL Physical Sciences Division esrl.noaa.gov/psd

NOAA Climate Prediction Center www.cpc.ncep.noaa.gov

USDA/NRCS National Water and Climate

Center - www.wcc.nrcs.usda.gov

National Interagency Fire Center www.nifc.gov

DOI WaterSMART

www.usbr.gov/WaterSMART

NOAA's Western Regional

Collaboration Team

www.regions.noaa.gov/western/western_ region_team.html

Western Water Assessment

wwa.colorado.edu

Climate Assessment for the Southwest climas.arizona.edu

California Nevada Applications Program meteora.ucsd.edu/cnap

Climate Impacts Research Consortium pnwclimate.org/resources

NWS River Forecast Centers

water.weather.gov/ahps/rfc/rfc.php

NOAA Fisheries Service www.nmfs.noaa.gov

www.nmfs.noaa.gov

NWS Western Region

www.wrh.noaa.gov/

State Climatologists - stateclimate.org

